

EXHIBIT “P”

Perkins Eastman

ARCHITECTURE
CONSULTING
INTERIOR DESIGN
PLANNING
PROGRAMMING

SUBMITTAL REVIEW COMMENT

Spec. Section	08 44 13	File No.	020
Project No.	32130.00	Subm. No.	02
Perkins Eastman			
<p>Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating the work with that of all other trades; and performing the work in a safe and satisfactory manner.</p>		no exceptions taken	<input type="checkbox"/>
		make corrections noted	<input checked="" type="checkbox"/>
		revise and resubmit	<input type="checkbox"/>
		rejected	<input type="checkbox"/>
		no action taken	<input type="checkbox"/>
by	L.G.	date	02/23/2015

- 1- SEE ENCLOSED COMMENTS FROM ALT AND PE.
- 2- THE SPLICE SEAL AND CORNER MULLION CALCS AND CORNER CONDITION MUST BE ADDRESSED.
- 2- PREVIOUS SUBMITTAL COMMENTS MUST BE ADDRESSED.
- 3-CM TO COORDINATE WITH ALL APPROVED DECKING, APPROVED SLAB EDGE, T.O.S. ELEVATIONS, GRADE ELEVATIONS AND APPROVED FRAMING PLANS; TYP.
- 4- COORDINATE WITH APPROVED ADJACENT WALL ASSEMBLIES AND TRANSITIONS; TYP.
- 5- PROVIDE ACTUAL PROJECT CONDITION DETAILS AT THE VARIOUS WALL TRANSITIONS. MATERIAL SPECS AND TRANSITION DETAILS MUST BE PROVIDED FOR ELEMENTS BY WCC.
- 6- REFER TO COMMENTS ON STRUCTURAL CALCULATIONS, INLCUDING PROVIDING STRUCTURAL CALCULATIONS FOR THE WCC ELEMENTS INCLUDING HORIZONTAL TUBE AND ANCHORAGE LOCATIONS.
- 7- Products shall comply with the guidelines for LEED certification as outlined in the specifications. All applicable product submittals to include all required documentation requirement of LEED certification including but not limited to: recycled and/or local content, material cost, and/or VOC content.
- 8. SPECIFY FILLER METAL FOR ALL STAINLESS STEEL WELDS.
- 9. VERIFY FILLER METAL FOR WELDS MEETS FILLER METAL ASSUMED IN CALCS.

NORTH AMERICA
ARLINGTON, VA
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ALT LIMITED

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22 February 2015

Ms. Mindy No
Perkins Eastman
115 Fifth Avenue
New York, NY 10003

Reference: P09.00.517 No. P150222-1

Subject: 2nd Review – Yunda WT1, WT3, & WT8
SUBMITTAL: Drawings 084413-020-02, Calcs 084413-020.001-02

Ms. No,

Attached is the review for the drawings and calculations referenced above.

There are only two items of major significance:

1. Splice seal. I think they need to fix the non-moving portions of the reinforcing extrusion so that the joint that is intended to move will, in fact, be the joint that moves.
2. I cannot tell if the corner mullion calcs are correct. I would expect to see the mullions rotated 45 degrees in the computer runs to model the principle axis of the mullions, but this is not there.

There are other minor comments, but these should not require resubmission.

Sincerely yours,

A handwritten signature in black ink, appearing to read 'Steve Strelbel'.

Steve Strelbel

CC File - ALT
Ms. Lara Guerra - PE

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Tel: (852) 2838-8512 Fax: (852) 2824-9009
Email: altd@cladding.com Website: www.cladding.com

<p>Submit from glass manufacturer:</p> <ol style="list-style-type: none">Review of details and acceptanceThermal stress review and statement of acceptance.	<p>Submit from sealant manufacturer:</p> <ol style="list-style-type: none">Delhi reviewCompatibility review for all components in contact with sealant.Adhesion testing for all components requiring sealant adhesion.Stress statement for structural sealants.	<p>Submit extrusions showing:</p> <ol style="list-style-type: none">Full scale die drawingsDimensions	<p>WHITESTONE CONSTRUCTION CORP Project/Contract #: New Academic Bldg. NY-CUCF-01-08-CURT Date: 2/03/14 Rev#:001 Spec: 084413-186 - GLAZED ALUMINUM CURTAIN WALLS Dwg: Shops [WT-1,3,6,8] Full Scope</p>
<p>Reviewed F. J. Selman Construction 02/06/2015 084413-027-02 (Alum Curtain)</p>	<h1>CITY TECH ACADEMIC BUILDING</h1> <p>285 JAY STREET BROOKLYN ,NY11201</p> <p>JAN 30th, 2015</p> <p>FIRST RESUBMISSION</p> <h2>CURTAIN WALL SHOP DRAWINGS</h2> <p>Some items are noted by Yunda as already sent. Please list the item requested, transmittal number with sample, and transmittal number with documentation in a table.</p> <p>Submit from the insulation, fire sealing, and smoke seal manufacturer:</p> <ol style="list-style-type: none">Product datasheets with full information including:<ul style="list-style-type: none">- U-value- Compression at installation requirements- Orientation of fiber direction instructions- thicknesses required for fire rating- Smoke seal overlap requirements- Smoke seal wet and dry minimum thicknessesFire rating certifications with hour ratingCertification test documents <p>NOTE: This is a review of a partial submission. No structural calculations, drawings of anchors, material specifications were submitted for the "by WCC" elements. Examples include the steel tubes that support WT3 and screws and closures at the perimeter of the Yunda walls.</p> <p>Drawings also to be reviewed by BMU, fire, LEED and other consultants/authorities.</p> <p>Comments on one sheet are applicable to similar conditions on other sheets.</p> <p>Subsequent reviews may find additional items.</p> <p>Architect to review aesthetic, finishes, modulation, and geometry.</p>		
<p>WT1, 3, & 8, ALT 2nd Review 2015-02-09 Submittal 084413-020-02</p>			

LIST OF DRAWING						
NO.	DRAWING TITLE	DRAWING NO.	SIZE	REV.	PAGE	
01	DRAWING LIST	DX1	A1	0	1	
02	DRAWING LIST	DX2	A1	0	1	
03	DESIGN SPECIFICATION	DS01	A1	0	1	
04	DESIGN SPECIFICATION	DS02	A1	0	1	
05	MATERIAL LIST	ML01	A1	0	1	
06	MATERIAL LIST	ML02	A1	0	1	
07	MATERIAL LIST	ML03	A1	0	1	
08	MATERIAL LIST	ML04	A1	0	1	
09	MATERIAL LIST	ML05	A1	0	1	
10	MATERIAL LIST	ML06	A1	0	1	
11	MATERIAL LIST	ML07	A1	0	1	
12	MATERIAL LIST	ML08	A1	0	1	
13	MATERIAL LIST	ML09	A1	0	1	
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15	MATERIAL LIST	ML11	A1	0	1	
16	MATERIAL LIST	ML12	A1	0	1	
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18	EAST ELEVATION	EE2	A1	0	1	
19	NORTH ELEVATION	NE3	A1	0	1	
20	SOUTH ELEVATION	SE4	A1	0	1	
21	1ST FLOOR PLAN	PF1	A1	0	1	
22	2ND FLOOR PLAN	PF2	A1	0	1	
23	3RD FLOOR PLAN	PF3	A1	0	1	
24	4TH FLOOR PLAN	PF4	A1	0	1	
25	5TH FLOOR PLAN	PF5	A1	0	1	
26	6TH FLOOR PLAN	PF6	A1	0	1	
27	7TH FLOOR PLAN	PF7	A1	0	1	
28	8TH FLOOR PLAN	PF8	A1	0	1	
29	PARTIAL ELEVATION	PE1	A1	0	1	
30	PARTIAL ELEVATION	PE2	A1	0	1	
31	PARTIAL ELEVATION	PE3	A1	0	1	
32	PARTIAL ELEVATION	PE4	A1	0	1	
33	PARTIAL ELEVATION	PE5	A1	0	1	
34	PARTIAL ELEVATION	PE6	A1	0	1	
35	PARTIAL ELEVATION	PE7	A1	0	1	
36	PARTIAL ELEVATION	PE8	A1	0	1	
37	PARTIAL ELEVATION	PE9	A1	0	1	
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40	PARTIAL ELEVATION	PE12	A1	0	1	
41	PARTIAL ELEVATION	PE13	A1	0	1	
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46	PARTIAL ELEVATION	PE18	A1	0	1	
47	PARTIAL ELEVATION	PE19	A1	0	1	
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49	PARTIAL ELEVATION	PE21	A1	0	1	
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59	PARTIAL ELEVATION	PE31	A1	0	1	
60	PARTIAL ELEVATION	PE32	A1	0	1	
61	PARTIAL ELEVATION	PE33	A1	0	1	
62	PARTIAL ELEVATION	PE34	A1	0	1	
63	PARTIAL ELEVATION	PE35	A1	0	1	
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66	PARTIAL ELEVATION	PE38	A1	0	1	
67	PARTIAL ELEVATION	PE39	A1	0	1	
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140	PARTIAL ELEVATION	PE112	A1	0	1	
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142	DETAIL OF WALL TYPE 1	DW2	A1	0	1	
143	DETAIL OF WALL TYPE 1	DW3	A1	0	1	
144	DETAIL OF WALL TYPE 1	DW4	A1	0	1	
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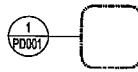
CURTAIN WALL SPECIFICATION																	
<p>I . General</p> <ol style="list-style-type: none"> This is L1-roof curtain wall shop drawings for CUNY. The curtain wall system include as follow: <ul style="list-style-type: none"> - WT-1A/B/C Unitized Curtainwall - WT-3 Point Glazed Struct. Glass Curtainwall - WT-6 Canopy - WT-8 Unitized Curtainwall Yuanda's scope of work <ul style="list-style-type: none"> - Yuanda's bid documents. - The contract documents between Yuanda and WCC. <p>II . Design basis</p> <ol style="list-style-type: none"> Yuanda's bid documents. The contract documents between Yuanda and WCC. The newest Architectural drawings and Structure drawings. Specifications 084413, 084426, 088000 & related sections. <p>III . Design criteria</p> <ol style="list-style-type: none"> Wind load: <ul style="list-style-type: none"> a. Typical: +/- 30 psf, Corner: +/- 55psf. Deflection limits: <ul style="list-style-type: none"> a.The deflection of vertical frame is Limited to 1/175 of clear span for spans up to 13 feet 6 inches (4.1 m) and to 1/240 of clear span plus 1/4 inch (6.35 mm) for spans greater than 13 feet 6 inches (4.1 m) or an amount that restricts edge deflection of individual glazing files to 3/4 inch (19 mm), whichever is less. b.Glass Deflection: Center of glass deflection at half design load shall not exceed 1/90 of its span or 3/4" inch (19 mm), whichever is less. Center of glass deflection at full design load shall not exceed 1.5 inches (38 mm). c.Metal Panel Deflection: Deflection shall not exceed 1/120 of clear span or 3/4"inch,whichever is less. Structure tolerance: 1" in any direction. Movement requirement: The structure was designed to drift less than or equal to L/400 where L is floor to floor height. Regarding -beam deflection,-column compression, -slab edge beam deflection -long cantilever beams off columns, " the maximum added up value for L-8 is 0.92", and that for L-3 is 0.86". Energy Performance: U-factor of the vision glass shall not exceed 0.29 BTU/sf x hr x °F . Air Infiltration: <ul style="list-style-type: none"> a.For fixed areas, 0.06 cfm/ft² of exterior surface area with a pressure differential of 6.24 psf. b.For operable windows and doors: 0.25 cfm/ft² of exterior surface area with a pressure differential of 6.24 psf. 	<p>7. Water Penetration: 12 psf with no uncontrolled water appears on any interior surface .</p> <p>8. Structure tolerance: ±1/2" outward and inward, ±1/2" up and down.</p> <p>IV . Duty of reviewer</p> <ol style="list-style-type: none"> The approval of the architect /consultant indicates that he/she had reviewed and agreed that the drawings comply with the design concept and the contract documents. The approval of the architect/ consultant also indicates that all the dimensions, profiles, finish and facade materials meet the aesthetics requirements of the architect. <p>V . Others</p> <ol style="list-style-type: none"> Yuanda will not assume any responsibility for any mistakes caused when other parties use these drawings. Yuanda will not assume any responsibility for the deficiency or over tolerance of the the building structure. Yuanda will not assume any responsibility for any delay and loss arising from not receiving sufficient information being provided with the wrong or not being provided with information in time. <p>VI . Materials</p> <p>FULLY TEMPERED</p> <ol style="list-style-type: none"> The aluminum alloy: 6063-T5, 6063-T6, 6061-T6(as per calculation) Exterior aluminum extrusion: Silver anodized coats finish AA20. Interior aluminum extrusion: Silver anodized coats finish AA20. Concealed aluminum extrusion: Silver anodized coats finish AA15. The aluminum solid panel: <ul style="list-style-type: none"> -Exterior: 3003-H14, 3.2mm thickness, the exterior visible finish is PVDF 3 coats, color to be determined by architect. -Shadow box: 3003-H14, 2mm thickness, the finish is powder coat color to be determined by architect. Carbon steel: Q235 and galvanized. Back pan: 1mm galvanized steel sheet. Thermal Insulation: 110mm thickness rock wool, the density is 128 kg/m³. Fastener: 316 stainless steel Gasket: Silicone gasket, color is gray, used for the concealed area, Silicone gasket, color is gray, used for the exposed area. Sealant: <ul style="list-style-type: none"> -Structure sealant: Dow corning 993N, color is gray. -Weatherproofing sealant: Dow corning 791, color is gray. <p>PROVIDE ASTM E90 ACOUSTI REPORT FOR EACH TYPE OF GLASS ASSEMBLY.</p> <p>PROVIDE AND COORDINATE ALL CONTROL BASE POINT ELEVATIONS WITH THE VARIOUS WALL ASSEMBLIES AND COORDINATE WITH APPROVED PROJECT SHOP DRAWINGS FOR THE VARIOUS ASSEMBLIES.</p> <p>10.Glass:</p> <p>G1: 8MM CLEAR HS LOW-E (YNE0175) ON #2 SURFACE +12AR+8MM CLEAR HS WITH WARM EDGE</p> <p>G2: 8MM CLEAR HS Shadow box:P04</p> <p>G3: 8MM CLEAR HS LOW-E (YNE0175) ON #2 SURFACE+12AR+8MM CLEAR HS WITH COMMON WHITE TEXT FRIT ON #3 SURFACE AND WARM EDGE Shadow box:P02</p> <p>G3A: 8MM CLEAR HS LOW-E (YNE0175) ON #2 SURFACE+12AR+8MM CLEAR HS WITH COMMON WHITE DOTS FRIT ON #3 SURFACE AND WARM EDGE Shadow box:P02</p> <p>G4: 8MM CLEAR HS LOW-E (YNE0175) ON #2 SURFACE +12AR+19MM CLEAR FT WITH WARM EDGE</p> <p>G4A: 8MM CLEAR FT LOW-E (YNE0175) ON #2 SURFACE +12AR+19MM CLEAR FT WITH WARM EDGE</p> <p>G5: 12MM CLEAR FT +3.04 CLEAR SGP+12 MM CLEAR FT;</p> <p>G6: 12MM CLEAR FT +3.04 CLEAR SGP+12 MM CLEAR FT+3.04 CLEAR SGP+12 MM CLEAR FT</p> <p>G9: 12MM CLEAR FT +1.52 CLEAR SGP+12MM CLEAR FT;</p> <p>G10: 8MM CLEAR FT LOW-E (YNE0175) ON #2 SURFACE +12AR+8MM CLEAR FT WITH WARM EDGE;</p> <p>G11: 8MM CLEAR FT LOW-E (YNE0175) ON #2 SURFACE+12AR+8MM CLEAR FT WITH COMMON WHITE DOTS FRIT ON #3 SURFACE WITH WARM EDGE; Shadow box:P02</p> <p>G12: 8MM CLEAR FT; Shadow box:P04</p> <p>Reviewed F. J. Sciarra Cross-Certified 084413-C22-Q2 (Arch Lateral) KEY PLAN:  CENTER THE STATE OF NEW YORK BUREAU OF ARCHITECTURAL STANDARDS CONSTRUCTION DRAWING SUBMISSION FORM PROJECT PEW-NEW YORK ARCHITECTS P.C. 111 MADISON AVENUE NEW YORK 10022 CONSULTANT ALT STUDIO INC. 111 MADISON AVENUE NEW YORK 10022 CIV. & MECH CONTRACTORS YUANDA USA CORPORATION PROJECT TITLE ACADEMIC BUILDING 111 MADISON AVENUE NEW YORK 10022 Drawing File <table border="1"><tr><td>Design Specification</td></tr><tr><td>Check No. 1</td></tr><tr><td>Stock</td><td>N/A</td></tr><tr><td>Design Rev. 01</td><td>CNA</td></tr><tr><td>Category</td><td>May 20 2014</td></tr><tr><td>Location</td><td>May 20 2014</td></tr><tr><td>Material</td><td>May 20 2014</td></tr><tr><td>Approved By</td><td>Law</td></tr><tr><td>Drawn By</td><td>MEG 2014</td></tr></table></p>	Design Specification	Check No. 1	Stock	N/A	Design Rev. 01	CNA	Category	May 20 2014	Location	May 20 2014	Material	May 20 2014	Approved By	Law	Drawn By	MEG 2014
Design Specification																	
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CURTAIN WALL SPECIFICATION

VII. Reference symbols



Section view symbol



Guide symbol of position of detail



Material specification symbol

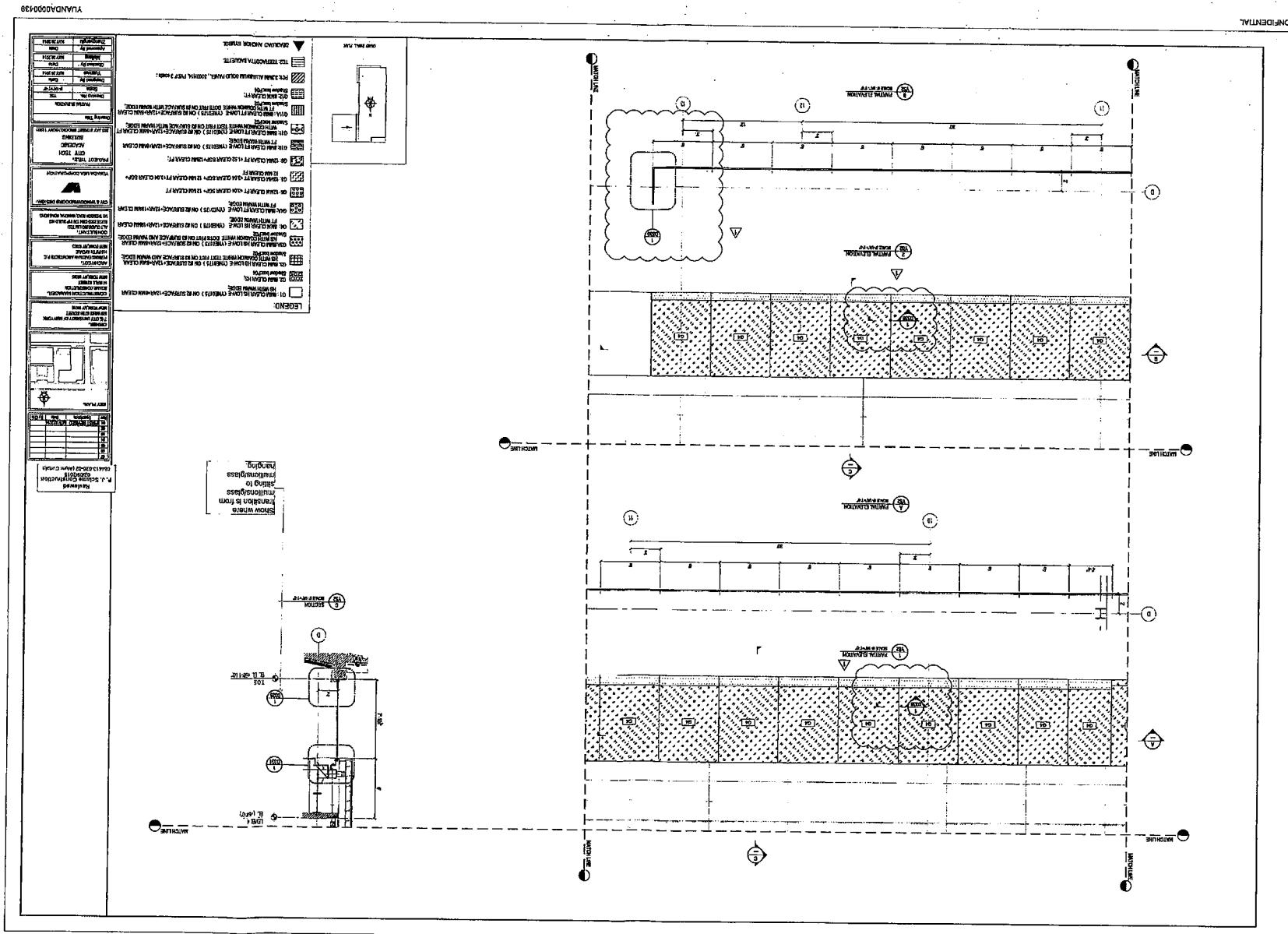


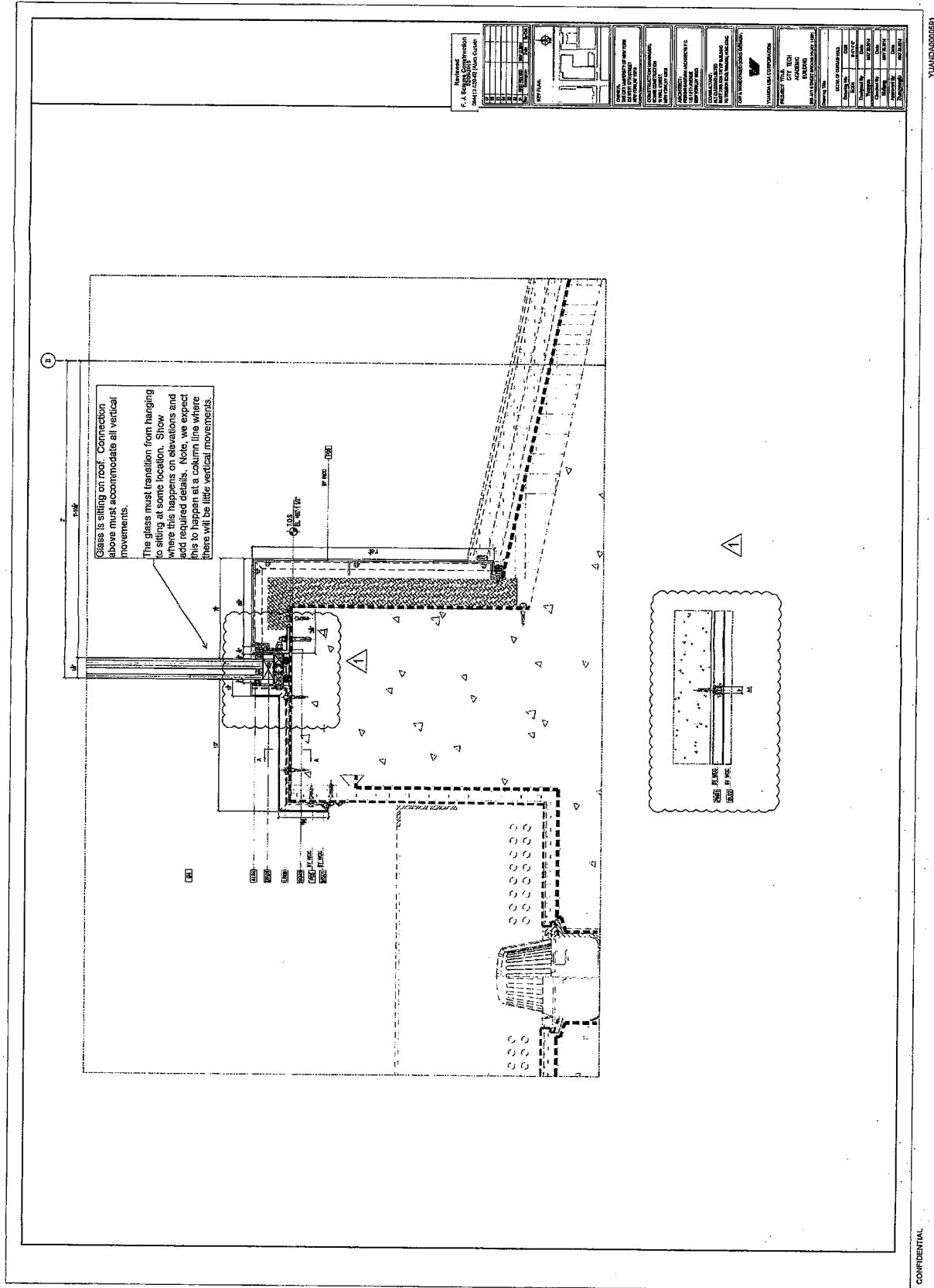
Revision symbol



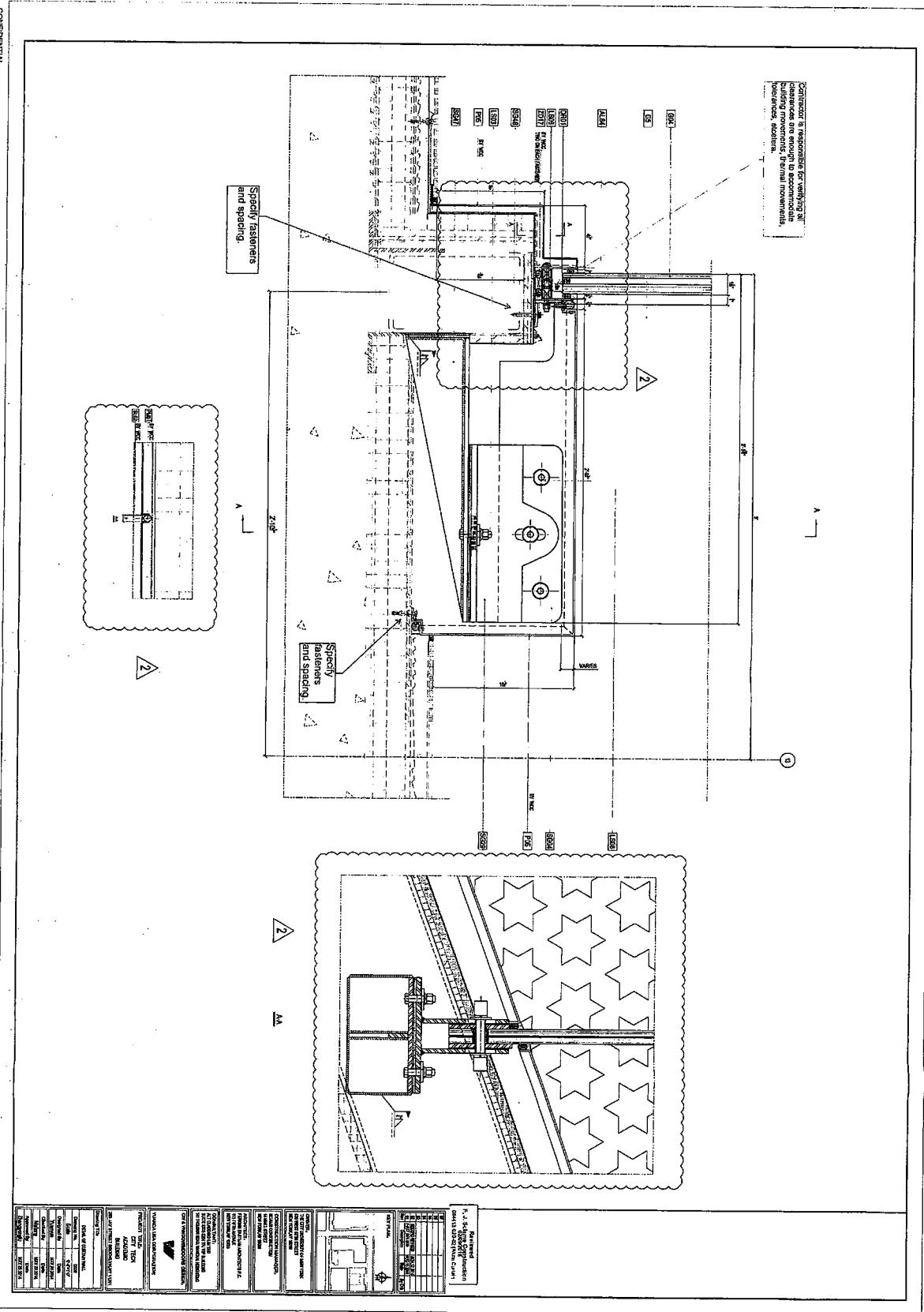
This symbol represents that the part needs to be installed on site.

Reviewed	P. J. Sclama Construction
Signed	6/24/21-C2B-02 (Alan Carata)
CARTOON	
CONTRACTOR'S NAME:	
WILLIAM STREET	
100 WILLIAM STREET	
NEW YORK, NY 10038	
ARCHITECT:	
PEPPER PARTNERS ARCHITECTS P.C.	
100 WILLIAM STREET	
CONTRACTANT:	
ALAN CARATA	
6044112-C2B-02 (Alan Carata)	
CWA CONSULTING DESIGNERS	
YUANDA LTD CORPORATION	
PROJECT TITLE:	
CITY TECH	
ACADEMIC BUILDING	
200 CITY AVENUE, NEW YORK, NY 10038	
Drawing Title:	
Elevation Specification	
Drawn By:	ALAN C
Scale:	1/4"
Conspired By:	QMA
Rev. No.:	001
Created By:	QMA
Edited By:	QMA
Deleted By:	QMA
Approved By:	QMA
Comments:	QMA

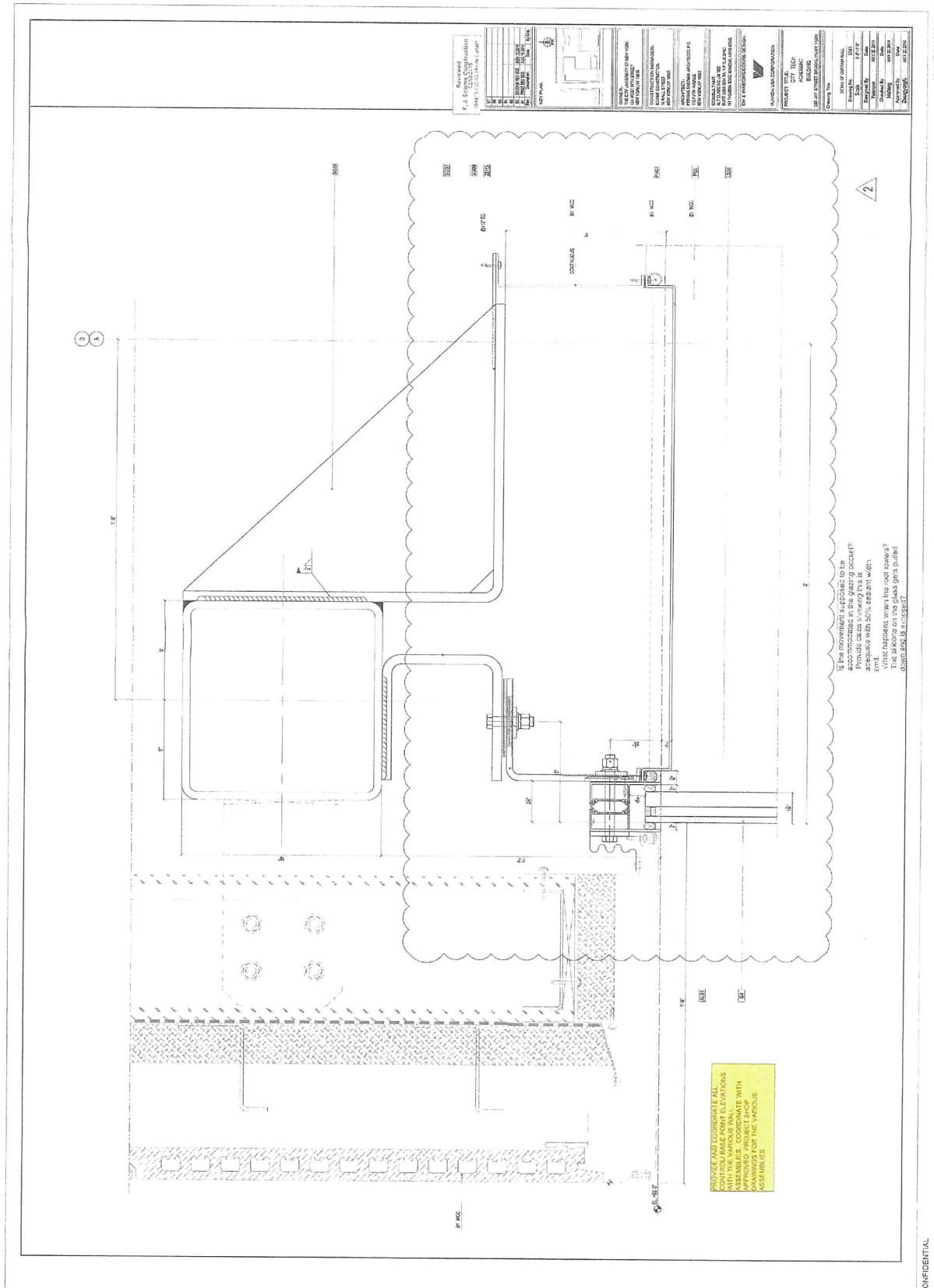




CONFIDENTIAL



ATTACHMENT SHEET



200